Curriculum Vitæ
Gregory C. Sloan

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Highlights

- Awarded $1.4 million in research grants, most of it since 2011.
- Published 113 refereed papers, with over 6,200 citations (Hirsch Index = 44).
- Leader in the study of organics and carbon-rich dust in interstellar and circumstellar environments.
- Member of an international collaboration studying dust formation and mass loss from evolved stars.
- Led the spectral calibration of the Infrared Spectrograph on the *Spitzer Space Telescope*.
- Seasoned teacher, of both physics and astronomy, introductory and advanced, at several universities.

Education

Ph.D. Physics (Astrophysics Program), University of Wyoming 1992
Spatially Resolved 10 Micron Spectra of Circumstellar Material around Evolved Stars
Research advisors: Ron Canterna and Gary Grasdalen.

B.A. Physics and Astronomy, Northwestern University 1985

Research Experience

Senior Research Associate, Cornell University 2010-present
Identifying samples of targets for the *James Webb Space Telescope* with optical and near-IR temporal imaging programs.

Research Associate, Cornell University 2001-2010
Member of the *Spitzer*/Infrared Spectrograph team at Cornell led by Jim Houck.

Senior Astronomer, Boston College 2000-2002
Produced a calibrated spectral atlas from the *Infrared Space Observatory* with Steve Price.

NSF International Research Fellow, Australian Defence Force Academy 1997-1998
Studied mass loss and dust formation in evolved stars with Craig Smith.

National Research Council Associate, NASA Ames Research Center 1994-1997
Studied organic molecules in the interstellar medium with Jesse Bregman.

Geophysics Scholar and ***Phillips Laboratory Scholar***, Air Force Phillips Lab. 1992-1994
Used spectra from the *Infrared Astronomical Satellite* to study dust formed by dying stars.

Research Assistant, University of Wyoming 1986-1991
Developed the data acquistion system for first long-slit infrared spectrometer and used it to spatial and spectral variations of dust in circumstellar environments under Gary Grasdalen.

Awards

- NASA Astrophysics and Data Analysis Program, $414,000 — 2013-present
- National Science Foundation, Astrophysics Division, $469,000 — 2011-present
- NASA Astrophysics and Data Analysis Program, $123,000 — 2009-2011
- *Spitzer Space Telescope* observing awards, $290,000 — 2004-2010
- National Science Foundation International Research Fellowship — 1997-1998
- National Research Council Fellowship — 1994-1997
- Geophysics and Phillips Laboratory Scholar Fellowships — 1992-1994

Teaching Experience

Visiting Lecturer, Cornell University 2009-2011
Introductory survey of planetary astronomy, advanced course in stellar and galactic astrophysics.

Lecturer, Ithaca College 2006-2007
Introductory survey of planetary astronomy, taught in a SCALE-UP classroom.

Senior Instructor, Virginia Polytechnic Institute and State University 1999-2000
General physics, both with and without calculus.

Visiting Lecturer, University of New England, Australia 1996-1998
Introduction to astronomy.

Visiting Instructor, University of Montana 1991
Introduction to astronomy.

Instructor and ***Teaching Assistant***, University of Wyoming 1985-1991
Introduction to astronomy, teaching assistant for several astronomy and physics courses.

Mentoring Experience

Mentored seven summer students in Cornell's Research Experience for Undergraduates program and five Cornell undergraduate researchers. Published six refereed papers with five students. Supervised two post-doctoral research associates.

Public Outreach

Extensive outreach efforts include writing a children's book (Benchmark Education, 2014), appearances on radio and television, public lectures, workshops for teachers, enrichment courses at local schools, star parties, eclipse- and occulation-viewing events, and participation in Project Astro in both the San Francisco Bay and Boston areas.

Astronomy Service and Associations

Proposal reviewer for NASA, the NSF, *Spitzer Space Telescope*, *UKIRT* and *CFHT*. Referee for 27 submitted papers for the four leading astronomy journals. External examiner for one Ph.D. dissertation. Member, International Astronomical Union and American Astronomical Society.

Refereed Publications

As of 11 December, 2014, G. Sloan has published 113 refereed papers (23 as first author), plus two in press and one submitted.

116. Lagadec, E., Guzman-Ramirez, L., Zijlstra, A.A., Mekarnia, D., Matsuura, M., **Sloan, G.C.**, & Gesicki, K. 2014, "PAH formation in the dense central torus of the O-rich pre-planetary nebula Roberts 22," *A&A*, submitted.

115. Boyer, M.L., McQuinn, K.B.W., Barmby, P., Bonanos, A.Z., Gehrz, R.D., Gordon, K.D., Groenewegen, M.A.T., Lagadec, E., Lennon, D., Marengo, M., McDonald, I., Meixner, M., Skillman, E., **Sloan, G.C.**, Sonneborn, G., van Loon, J.Th., & Zijlstra, A., 2014, "An infrared spectral census of dust in nearby galaxies with *Spitzer* (DUSTiNGS). II. Discovery of metal-poor dusty AGB stars," *ApJ*, in press.

114. Boyer, M.L., McQuinn, K.B.W., Barmby, P., Bonanos, A.Z., Gehrz, R.D., Gordon, K.D., Groenewegen, M.A.T., Lagadec, E., Lennon, D., Marengo, M., Meixner, M., Skillman, E., **Sloan, G.C.**, Sonneborn, G., van Loon, J.Th., & Zijlstra, A., 2014, "An infrared spectral census of dust in nearby galaxies with *Spitzer* (DUSTiNGS). I. Overview," *ApJ*, in press.

113. **Sloan, G.C.**, Herter, T.L., Charmardaris, V., Sheth, K., Burgdorf, M., & Houck, J.R. 2014, "Spectral calibration in the mid-infrared: Challenges and solutions," *AJ*, **149**, 11.

112. **Sloan, G.C.**, Lagadec, E., Zijlstra, A.A., Weis, A.P., Matsuura, M., Volk, K., Peeters, E., Duley, W.W., Cami, J., Bernard-Salas, J., Kemper, F., & Sahai, R. 2014, "Carbon-rich dust past the asymptotic giant branch: Aliphatics, aromatics, and fullerenes in the Magellanic Clouds," *ApJ*, **791**, 28.

111. Jones, O.C., Kemper, F., Srinivasan, S., McDonald, I., **Sloan, G.C.**, & Zijlstra, A.A., 2014, "Modelling the alumina abundance of oxygen-rich evolved stars in the Large Magellanic Cloud," *MNRAS*, **440**, 631.

110. McDonald, I., Zijlstra, A.A., **Sloan, G.C.**, Kerins, E., Lagadec, E., & Minniti, D. 2014, "VISTA variables in the Sagittarius dwarf spheroidal galaxy?" *MNRAS*, **439**, 2618.

109. Matsuura, M., et al. (29 authors, including **Sloan, G.C.**) 2014, "*Spitzer Space Telescope* spectra of post-AGB stars in the Large Magellanic Cloud — polycyclic aromatic hydrocarbons at low metallicities," *MNRAS*, **439**, 1472.

108. McDonald, I., Zijlstra, A.A., **Sloan, G.C.**, Kerins, E., Lagadec, E., Minniti, D., Gurovich, S., Dominguez Romero, M.J.de L., & Santucho, V. 2013, "VISTA's view of the Sgr dSph galaxy and southern Galactic Bulge," *MNRAS*, **436**, 413.

107. Adams, J.J., Simon, J.D., Bolatto, A.D., **Sloan, G.C.**, Sandstrom, K.M., Schmiedeke, A., van Loon, J.Th., Oliveira, J.M., & Keller, L.D. 2013, "Dusty OB stars in the Small Magellanic Cloud - II: Extragalactic disks or examples of the Pleiades phenomenon?" *ApJ*, **771**, 112.

106. Oliveira, J.M., van Loon, J.Th., **Sloan, G.C.**, Sewilo, M., Kraemer, K.E.., Wood, P.R., Indebetouw, R., Filipovic, M.D., Crawford, E.J., Wong, G.F., Hora, J.L., Meixner, M., Robitaille, T., Shiao, B., & Simon, J.D. 2013, "Early-stage young stellar objects in the Small Magellanic Cloud," *MNRAS*, **428**, 3001.

Refereed Publications (continued)

105. Jones, O.C., Kemper, F., Sargent, B.A., McDonald, I., Gielen, C., Woods, P.M., **Sloan, G.C.**, Boyer, M.L., Zijlstra, A.A., Clayton, G.C., Kraemer, K.E., Ruffle, P.M.E., & Srinivasan, S. 2012, "On the metallicity dependence of crystalline silicates in oxygen-rich AGB and RSG stars," *MNRAS*, **427**, 3209.

104. Lagadec, E., **Sloan, G.C.**, Zijlstra, A.A., Mauron, N., & Houck, J.R. 2012, "SiC dust in metal-poor carbon stars in the Galactic Halo," *MNRAS*, **427**, 2588.

103. Lebouteiller, V., **Sloan, G.C.**, Groenewegen, M.A.T., Matsuura, M., Riebel, D., Whelan, D.G., Bernard-Salas, J., Massey, P., & Bayet, E. 2012, "Oxygen-rich dust production in IC 10," *A&A*, **546**, 94.

102. Smolders, K., Verhoelst, T., Neyskens, P., Blommaert, J.A.D.L., Decin, L., Van Winckel, H., Van Eck, S., **Sloan, G.C.**, Cami, J., Hony, S., de Cat, P., Menu, J., & Vos, J. 2012, "Detection of a new TiO emission band in the infrared spectrum of the S-type AGB star NP Aurigae," *A&A*, **543**, L2.

101. **Sloan, G.C.**, Matsuura, M., Lagadec, E., van Loon, J.Th., Kraemer, K.E., McDonald, I., Groenewegen, M.A.T., Wood, P.R., Bernard-Salas, J., & Zijlstra, A.A. 2012, "Carbon-rich dust production in metal-poor galaxies in the Local Group," *ApJ*, **752**, 140.

100. Smolders, K., et al. (31 authors, including **Sloan, G.C.**) 2012, "The *Spitzer* spectroscopic survey of S-type stars, *A&A*, **542**, 72.

99. Boyer, M.L., Srinivasan, S., Riebel, D., McDonald, I., van Loon, J.Th., Clayton, G.C., Gordon, K.D., Meixner, M., Sargent, B.A., & **Sloan, G.C.** 2012, "The dust budget of the SMC: Are AGB stars the primary dust source at low metallicity?" *ApJ*, **748**, 40.

98. McDonald, I., van Loon, J.Th., **Sloan, G.C.**, Dupree, A.K., Zijlstra, A.A., Boyer, M.L., Gehrz, R.D., Evans, A., Woodward, C.E., & Johnson, C.I. 2011, "*Spitzer* spectra of evolved stars in omega Centauri and their low-metallicity dust production," *MNRAS*, **417**, 20.

97. Gielen, C., Bouwman, J., Van Winckel, H., Lloyd Evans, T., Woods, P.M., Kemper, F., Marengo, M., Meixner, M., **Sloan, G.C.**, & Tielens, A.G.G.M. 2011, "Silicate features in Galactic and extragalactic post-AGB discs," *A&A*, **533**, 99.

96. Lebouteiller, V., Barry, D.J., Spoon, H.W.W., Bernard-Salas, J., **Sloan, G.C.**, Houck, J.R., & Weedman, D. 2011, "CASSIS: The Cornell Atlas of *Spitzer*/IRS Spectra," *ApJ Suppl.*, **196**, 8.

95. Volk, K., Hrivnak, B.J., Matsuura, M., Bernard-Salas, J., Szczerba, R., **Sloan, G.C.**, Kraemer, K.E., Kemper, F., Woods, P.M., Zijlstra, A.A., Meixner, M., Gordon, K.D., Tielens, A.G.G.M., Indebetouw, R., van Loon, J.Th., Gruendl, R.A., Sahai, R., & Maringo, M. 2011, "Discovery and analysis of 21 μm feature sources in the Magellanic Clouds," *ApJ*, **735**, 127.

94. Hony, S., Kemper, F., Woods, P.M., van Loon, J.Th., Gorjian, V., Madden, S.C., Zijlstra, A.A., Gordon, K.D., Indebetouw, R., Marengo, M., Meixner, M., Shiao, B., **Sloan, G.C.**, Mullaney, J., & Tielens, A.G.G.M. 2011, "The *Spitzer* discovery of an entirely AGN dominated galaxy," *A&A*, **531**, 137.

Refereed Publications (continued)

93. **Sloan, G.C.**, Hony, S., Smolders, K., Decin, L., Zijlstra, A.A., Feast, M.W., van Wyk, F., van Loon, J.Th., Groenewegen, M.A.T., & Sahai, R. 2011, "The identification of SiS emission at 13-14 μm in the infrared spectra of Galactic S stars," *ApJ*, **729**, 121.

92. Woods, P.M., et al. (58 authors, including **Sloan, G.C.**) 2011, "The SAGE-Spec *Spitzer* legacy program: The life-cycle of dust and gas in the Large Magellanic Cloud. Point source classification I.," *MNRAS*, **411**, 1597.

91. van Breemen, J.M., Min, M., Chiar, J.E., Waters, L.B.F.M., Kemper, F., Boogert, A.C.A., Cami, J., Decin, L., Knez, C., **Sloan, G.C.**, & Tielens, A.G.G.M. 2011, "The 9.7 and 18 μm silicate absorption profiles towards diffuse molecular cloud lines of sight," *A&A*, **526**, 152.

90. Oliveira, J.M., van Loon, J.Th., **Sloan, G.C.**, Gordon, K.D., Indebetouw, R., Kemper, F., Marengo, M., Meixner, M., Simon, J.D., Tielens, A.G.G.M., & Woods, P.M. 2011, "Ice chemistry in massive young stellar objects: The role of metallicity,“ *MNRAS*, **411**, L36.

89. Srinivasan, S., Sargent, B.A., Matsuura, M., Meixner, M., Kemper, F., Tielens, A.G.G.M., Volk, K., Speck, A.K., Woods, P.M., Gordon, K., Marengo, M., & **Sloan, G.C.** 2010, "The mass-loss return from evolved stars to the Large Magellanic Cloud. III. Dust properties for carbon-rich asymptotic giant branch stars," *A&A*, **524**, 49.

88. **Sloan, G.C.**, Matsunaga, N., Matsuura, M., Zijlstra, A.A., Kraemer, K.E., Wood, P.R., Nieusma, J., Bernard-Salas, J., Devost, D., & Houck, J.R. 2010, "*Spitzer* spectroscopy of mass loss and dust production by evolved stars in globular clusters," *ApJ*, **719**, 1274.

87. Boyer, M.L., et al. (22 authors, including **Sloan, G.C.**) 2010, "Cold dust in three massive evolved stars in the LMC," *A&A*, **518**, L142.

86. Otsuka, M., van Loon, J.Th., Long, K.S., Meixner, M., Matsuura, M., Reach, W.T., Roman-Duval, J., Gordon, K., Sauvage, M., Hony, S., Misselt, K., Engelbracht, C., Panuzzo, P., Okumura, K., Woods P.M., Kemper F., & **Sloan, G.C.** 2010, "Dust in the bright supernova remnant N49 in the LMC," *A&A*, **518**, L139.

85. McDonald, I., **Sloan, G.C.**, Zijlstra, A.A., Matsunaga, N., Matsuura, M., Kraemer, K.E., Bernard-Salas, J., & Markwick, A.J. 2010, "Rusty old stars: A source of the missing interstellar iron?" *ApJ Letters*, **717**, L92.

84. Sargent, B.A., Srinavasan, S., Meixner, M., Kemper, F., Tielens, A.G.G.M., Speck, A.K., Matsuura, M., Bernard, J.-Ph., Hony, S., Gordon, K.D., Indebetouw, R., Marengo, M., **Sloan, G.C.**, & Woods, P.M. 2010, "The mass-loss return from evolved stars to the Large Magellanic Cloud. II. Dust properties for oxygen-rich asymptotic giant branch stars," *ApJ*, **716**, 878.

83. Kemper, F., et al. (56 authors, including **Sloan, G.C.**) 2010, "The SAGE-Spec *Spitzer* Legacy program: The life-cycle of gas and dust in the Large Magellanic Cloud. I. Overview and initial results," *PASP*, **122**, 683.

82. Smolders, K., Acke, B., Verhoelst, T., Blommaert, J.A.D.L., Decin, L., Hony, S., **Sloan, G.C.**, Neyskens, P., Van Eck, S., Zijlstra, A.A., & Van Winckel, H. 2010, "When an old star smolders: On the detection of hydrocarbon emission from S-type AGB stars," *A&A Letters*, **514**, L1.

Refereed Publications (continued)

81. Lagadec, E., Zijlstra, A.A., Mauron, N., Fuller, G., Josselin, E., **Sloan, G.C.**, & Riggs, A.J.E. 2010, "The low expansion velocity of metal-poor carbon stars in the Halo and the Sagittarius stream," *MNRAS*, **403**, 1331.

80. van Loon, J.Th., Oliveira, J.M., Gordon, K.D., **Sloan, G.C.**, & Engelbracht, C.W. 2010, "A *Spitzer Space Telescope* far-infrared spectral atlas of compact sources in the Magellanic Clouds. II. The Small Magellanic Cloud," *AJ*, **139**, 1553.

79. Lebouteiller, V., Bernard-Salas, J., **Sloan, G.C.**, & Barry, D.J. 2010, "Advanced optimal extraction for the Spitzer/IRS," *PASP*, **122**, 188.

78. van Loon, J.Th., Oliveira, J.M., Gordon, K.D., Shiao, B., Boyer, M.L., Kemper, F., Woods, P.M., Tielens, A.G.G.M., Meixner, M., Marengo, M. Indebetouw, R., **Sloan, G.C.**, & Chen, C.-H.R. 2010, "A *Spitzer Space Telescope* far-infrared spectral atlas of compact sources in the Magellanic Clouds. I. The Large Magellanic Cloud," *AJ*, **139**, 68.

77. Gielen, C., Van Winckel, H., Reyniers, M., Zijlstra, A., Lloyd Evans, T., Gordon, K.D., Kemper, F., Indebetouw, R., Marengo, M., Matsuura, M., Meixner, M., **Sloan, G.C.**, Tielens, A.G.G.M., & Woods, P.M. 2009, "Chemical depletion in the Large Magellanic Cloud: RV Tauri stars and the photospheric feedback from their dust discs," *A&A*, **508**, 1391.

76. Oliveira, J.M., van Loon, J.Th., Chen, C.-H.R., Tielens, A.G.G.M., **Sloan, G.C.**, Woods, P.M., Kemper, F., Indebetouw, R., Gordon, K.D., Boyer, M.L., Shiao, B., Madden, S., Speck, A.K., Meixner, M., & Marengo, M. 2010, "Ice chemistry in embedded young stellar objects in the Large Magellanic Cloud," *ApJ*, **707**, 1269.

75. Groenewegen, M.A.T., **Sloan, G.C.**, Soszynski, I., & Petersen, E.A. 2009, "Luminosities and mass-loss rates of SMC and LMC AGB stars and red supergiants," *A&A*, **506**, 1277.

74. Bernard-Salas, J., Spoon, H.W.W., Charmandaris, V., Lebouteiller, V., Farrah, D., Devost, D., Brandl, B.R., Wu, Y., Armus, L., Hao, L., **Sloan, G.C.**, Weedman, D., & Houck, J.R. 2009, " A *Spitzer* high resolution mid-infrared spectral atlas of starburst galaxies," *ApJ Suppl.*, **184**, 230.

73. Bernard-Salas, J., Peeters, E., **Sloan, G.C.**, Gutenkunst, S., Zijlstra, A.A., Matsuura, M., Tielens, A.G.G.M., & Houck, J.R. 2009, "Unusual dust emission from planetary nebulae in the Magellanic Clouds," *ApJ*, **699**, 1541.

72. Matsuura, M., Zijlstra, A.A., Barlow, M., Whitelock, P.A., Cioni, M.-R.L. Groenewegen, M.A.T., Volk, K., Kemper, K., Kodama, T., Lagadec, E., Meixner, M., **Sloan, G.C.**, & Srinivasan, S. 2009, "The global gas and dust budget of the Large Magellanic Cloud: AGB stars and supernovae, and the impact on the ISM," *MNRAS*, **396**, 918.

71. Lagadec, E., Zijlstra, A.A., **Sloan, G.C.**, Wood, P.R., Matsuura, M., Bernard-Salas, J., Blommaert, J.A.D.L., Cioni, M.-R.L., Feast, M.W., Groenewegen, M.A.T., Hony, S., Menzies, J.W., van Loon, J.Th., & Whitelock, P.A. 2009, "Metal-rich carbon stars in the Sagittarius Dwarf Spheroidal Galaxy," *MNRAS*, **396**, 598.

Refereed Publications (continued)

70. Sargent, B.A., Forrest, W.J., Tayrien, C., McClure, M.K., Watson, D.M., **Sloan, G.C.**, Li, A., Manoj, P., Bohac, C.J., Furlan, E., Kim, K.H., & Green, J.D. 2009, "Dust processing and grain growth in protoplanetary disks in the Taurus-Auriga star-forming region," *ApJ Suppl.*, **182**, 477.

69. Leggett, S.K., Cushing, M.C., Saumon, D., Marley, M.S., Roellig, T.L., Warren, S.J., Burningham, B., Jones, H.R.A., Kirkpatrick, J.D., Loudieu, N., Lucas, P.W., Mainzer, A.K., Martin, E.L, McCaughrean, M.J., Pinfeld, D.J., **Sloan, G.C.**, Smart, R.L., Tamura, M., & Van Cleve, J. 2009, "The physical properties of four ~600 K T dwarfs," *ApJ*, **695**, 1517.

68. **Sloan, G.C.**, Matsuura, M., Zijlstra, A.A., Lagadec, E., Groenewegen, M.A.T., Wood, P.R., Szyszka, C., Bernard-Salas, J. & van Loon, J.Th. 2009, "Dust formation in a galaxy with primitive abundances," *Science*, **323**, 353.

67. Sargent, B.A., Forrest, W.J., Tayrien, C., McClure, M.K., Li, A., Basu, A.R., Manoj, P., Watson, D.M., Bohac, C.J., Furlan, E., Kim, K.H., Green, J.D., & **Sloan, G.C.** 2009, "Silica in protoplanetary disks," *ApJ*, **690**, 1193.

66. Cami, J., **Sloan, G.C.**, Markwick-Kemper, A.J., Zijlstra, A.A., Bauschlicher, C., Matsuura, M., Decin, L., & Hony, S. 2009, "The detection of infrared SiS bands in spectra of S stars," *ApJ Letters*, **690**, L122.

65. Watson, D.M., Leisenring, J.M., Furlan, E., Bohac, C.J., Sargent, B., Forrest, W.J., Calvet, N., Hartmann, L., Nordhaus, G.T., Green, J.D., Kim, K.H., **Sloan, G.C.**, Chen, C.H., Keller, L.D., d'Alessio, P., Najita, J., Uchida, K.I., & Houck, J.R. 2009, "Crystalline silicates and dust processing in the protoplanetary disks of the Taurus young cluster," *ApJ Suppl.*, **180**, 84.

64. Gruendl, R.A., Chu, Y.-H., Seale, J.P., Matsuura, M., Speck, A.K., **Sloan, G.C.**, & Looney, L.W. 2008, "The discovery of extreme carbon stars in the Large Magellanic Cloud," *ApJ Letters*, **688**, L9.

63. **Sloan, G.C.**, Kraemer, K.E., Wood, P.R., Zijlstra, A.A., Bernard-Salas, J., Devost, D., & Houck, J.R. 2008, "The Magellanic zoo: Mid-infrared *Spitzer* spectroscopy of evolved stars and circumstellar dust in the Magellanic Clouds," *ApJ*, **686**, 1056.

62. Keller, L.D., **Sloan, G.C.**, Forrest, W.J., D'Alessio, P., Ayala, S., Shah, S., Calvet, N., Hartmann, L., Najita, J., Sargent, B., Li, A., Watson, D.M., & Chen, C.H. 2008, "PAH emission from Herbig Ae/Be stars," *ApJ*, **684**, 411.

61. van Loon, J.Th., Cohen, M., Oliveira, J.M., Matsuura, M., McDonald, I., **Sloan, G.C.**, Wood, P.R., & Zijlstra, A.A. 2008, "Molecules and dust production in the Magellanic Clouds," *A&A*, **487**, 1055.

60. Leisenring, J.M., Kemper, F., & **Sloan, G.C.** 2008, "Effects of metallicity on the chemical composition of carbon stars," *ApJ*, **681**, 1557.

59. Gutenkunst, S., Bernard-Salas, J., Pottasch, S.R., **Sloan, G.C.**, & Houck, J.R. 2008, "Chemical abundances and dust in planetary nebulae in the Galactic Bulge," *ApJ*, **680**, 1206.

Refereed Publications (continued)

58. Matsuura, M., Zijlstra, A.A., Bernard-Salas, J., Menzies, J.W., **Sloan, G.C.**, Whitelock, P.A., Wood, P.R., Cioni, M.-R.L., Feast, M.W., Lagadec, E., van Loon, J.Th., Groenewegen, M.A.T., & Harris, G.J. 2007, "*Spitzer Space Telescope* spectral observations of AGB stars in the Fornax dwarf spheroidal galaxy," *MNRAS*, **382**, 1889.

57. **Sloan, G.C.**, Jura, M., Duley, W.W., Kraemer, K.E., Bernard-Salas, J., Forrest, W.J., Sargent, B., Li, A., Barry, D.J., Bohac, C.J., Watson, D.M., & Houck, J.R. 2007, "The unusual hydrocarbon emission from the early carbon star HD 100764: The connection between aromatics and aliphatics," *ApJ*, **664**, 1144.

56. Mainzer, A.K., Roellig, T.L., Marley, M.S., Saumon, D., Cushing, M.C., **Sloan, G.C.**, Kirkpatrick, J.D., Leggett, S.K., & Wilson, J.C. 2007, "Moderate resolution *Spitzer* Infrared Spectrograph (IRS) observations of M, L, and T dwarfs," *ApJ*, **662**, 1245.

55. Lagadec, E., Zijlstra, A.A., **Sloan, G.C.**, Matsuura, M., Wood, P., Harris, G.J., van Loon, J.Th., Blommaert, J.A.D.L., Hony, S., Groenewegen, M.A.T., Feast, M.W., Whitelock, P.A., Menzies, J.W., Cioni, M.-R., Habing, H., & Waters, L.B.F.M. 2007, "*Spitzer* mid-infrared spectra of AGB stars in the Small Magellanic Cloud," *MNRAS*, **376**, 1270.

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Select Colloquia, Seminars, and Presentations

Jodrell Bank Centre for Astrophysics, Manchester Univ., department colloquium, 5 November, 2014, "The story of carbon: From carbon stars to aromatic hydrocarbons and fullerenes."

North Carolina State University, seminar, 22 September, 2014, "The Dust Budget Crisis: Where does the dust in the Magellanic Clouds come from?"

European Week of Astronomy and Space Science, invited talk, 4 July, 2014, "The role of AGB stars in dust production near and far."

SOFIA Community Tele-talk Series, 26 February, 2014, "Carbon stars and dust production as a function of metallicity."

Univ. of Texas, department colloquium, 2 October, 2012, "Carbon stars and dust production in the Local Group."

Univ. of Massachusetts, department colloquium, 27 September, 2012, "Carbon stars and dust production in metal-poor galaxies."

Space Telescope Science Institute, Workshop on Mass-Loss Return from Stars to Galaxies, 29 March, 2012, "How stars die: Infrared spectroscopy of dusty carbon stars in the Local Group."

Cornell Univ., department colloquium, 6 October, 2011, "How do stars die? A study of evolved stars in the Local Group."

Dark Cosmology Centre in Copenhagen, seminar, 6 September, 2011, "The nature of interstellar organics."

First Symposium at the Nicolaus Copernicus Astronomy Center, 31 August, 2011, Dust and metallicity."

Univ. of Scranton, seminar, 20 April, 2010, "Fun with space astronomy: Why NASA straps telescopes to rockets."

Colgate Univ., department colloquium, 1 December, 2009, "The *Spitzer* view of dust formation in the Local Group and the distant Universe."

Select Colloquia, Seminars, and Presentations (continued)

Wells College, department seminar, 23 October, 2009, "The *Spitzer Space Telescope* and the dusty Universe."

Univ. of Illinois, department colloquium, 13 October, 2009, "The *Spitzer Space Telescope* and dust in the Local Group."

Univ. of Wyoming, department colloquium, 18 September, 2009, "Dwarfs, globulars, and the early Universe: Infrared spectroscopy and the role of dust through time."

Univ. of Colorado at Boulder, seminar, 17 September, 2009, "Complex organics and interstellar processing in and beyond the Galaxy."

Univ. of Rochester, department seminar, 16 March, 2009, "Dust in the primitive Universe: Clues from the Local Group and Milky Way."

Cornell Univ., department colloquium, 22 January, 2009, "Clues about dust in the primitive Universe."

Harvard-Smithsonian Center for Astrophysics, seminar, 22 May, 2008, "Dust production in primitive systems: The view from the *Spitzer Space Telescope*."

Virginia Tech, seminar, 14 April, 2008, "Studying the enrichment of the Magellanic Clouds with the *Spitzer Space Telescope*."

Royal Astronomical Society, presentation at a specialist discussion meeting, 8 February, 2008, "Distinguishing high-mass evolved stars in the Magellanic Clouds."

Keele Univ., department colloquium, 6 February, 2008, "Interstellar organics: The view from the *Spitzer Space Telescope*."

Univ. of Missouri, department colloquium, 15 October, 2007, "Hydrocarbons in the interstellar medium: The view from the *Spitzer Space Telescope*."

NASA/Ames Research Center, seminar, 13 June, 2007, "*Spitzer* spectroscopy of unusual hydrocarbons in cool environments."

Ithaca College, department colloquium, 16 March, 2007, "Organics in space: The view from the *Spitzer Space Telescope*.“

Cornell Univ., department colloquium, 23 February, 2006, "Dust formation in the Magellanic Clouds."

Leiden Univ., Workshop on *Spitzer's* View on Mass-Losing AGB Stars, 28 November, 2005, "Infrared Spectra of Oxygen-rich Dust Shells around Evolved Stars in the Magellanic Clouds."

Rochester Institute of Technology, department colloquium, 24 October, 2005, "Infrared spectroscopy of mass ejected from evolved stars in the Magellanic Clouds."

Select Colloquia, Seminars, and Presentations (continued)

Northwestern Univ, seminar, 22 September, 2005, “Infrared spectroscopy of mass ejected from evolved stars in the Magellanic Clouds.”

Univ. of Manchester, seminar, 29 April, 2005, “Infrared spectra of circumstellar silicates and related grains.”

The *Spitzer Space Telescope*: New Views of the Cosmos, poster, 9 November, 2004, “Infrared spectra of oxygen-rich dust shells around evolved stars in the Magellanic Clouds.”

Spitzer Calibration Workshop, 8 November, 2004, “Infrared spectrophotometric calibration.”

Harvard-Smithsonian Center for Astrophysics, seminar, 16 May, 2001, “The nature of organic molecules in the interstellar medium.”

Virginia Tech, department colloquium, 22 April, 1999, “The nature of organic molecules in the interstellar medium.”

National Radio Astronomy Observatory, department colloquium, 1 April, 1999, “The nature of organic molecules in the interstellar medium.”

Univ. of Canterbury, department seminar, 22 May, 1998, “The nature of organic molecules in the interstellar medium.”

Joint Astronomy Centre, seminar, 5 May, 1998, “The nature of organic molecules in the interstellar medium.”

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Australian Defence Force Academy, seminar, 12 September, 1997, ”Emission from organic molecules in NGC 1333: Evidence for ionized PAHs.”

Univ. of Washington, seminar, 5 March, 1997, “PAHs in the Orion Bar.”

Australian Defence Force Academy, department seminar, 23 August, 1996, “Probing interstellar organics in the Orion Bar.”

Anglo-Australian Observatory, seminar, 15 August, 1996, “A menagerie of dust shell spectra.”

Univ. of New South Wales, seminar, 25 July, 1996, “The Orion Bar: The place to get your organic brew.”

Joint Astronomy Centre, seminar, 26 October, 1995, “PAH emission in extended sources”

NASA/Ames Research Center, seminar, 15 September, 1994, “The spatial structure of IRC +10216 as seen by a long-slit infrared spectrometer.”

Denver Univ., department colloquium, 24 May, 1994, “The evolution of dust shells around evolved giants.”

Select Colloquia, Seminars, and Presentations (continued)

Univ. of Idaho, department colloquium, 14 April, 1994, “The evolution of dust shells around evolved giants.”

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